

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

B Cells and T Follicular Helper Cells – Controlling Long-Lived Immunity (D2)

April 23-27, 2017 • Whistler Conference Centre • Whistler, British Columbia, Canada

Scientific Organizers: Stuart G. Tangye, Ignacio Sanz and Hai Qi

Sponsored by Arena Pharmaceuticals, Inc. and BioLegend, Inc.

Abstract & Scholarship Deadline: December 21, 2016 / Abstract Deadline: January 24, 2017 / Discounted Registration Deadline: February 23, 2017

SUNDAY, APRIL 23

Arrival and Registration

MONDAY, APRIL 24

Welcome and Keynote Address

Christopher C. Goodnow, Garvan Institute of Medical Research, Australia
Regulating B Cell Activation – Inputs and Outputs

B Cells, Infections and Vaccines

Antonio Lanzavecchia, Institute for Research in Biomedicine, Switzerland
Harnessing Human Memory B Cells for Vaccine Development
Susan K. Pierce, NIAID, National Institutes of Health, USA
B Cell Responses during Chronic Infection
Bali Pulendran, Emory University, USA
Systems Biology Approaches to Unravel Humoral Immune Responses
Short Talk(s) Chosen from Abstracts

Workshop 1: B Cell Memory and Plasma Cells

Short Talks Chosen from Abstracts

Transcriptional Regulation of B Cells and Tfh Cells

Stephen L. Nutt, Walter and Eliza Hall Institute, Australia
Transcriptional Control of Plasma Cell Differentiation
Amy Weinmann, University of Alabama at Birmingham, USA
Molecular Regulators of CD4 T Cell Differentiation
Ari M. Melnick, Weill Cornell Medical College, USA
Epigenetic Switches Controlling the Germinal Center Reaction
Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, APRIL 25

Tfh Programming and Flexibility

Hai Qi, Tsinghua University, China
Regulation of Tfh Formation and Function
Shane Crotty, La Jolla Institute for Allergy and Immunology, USA
Molecular Regulators of Tfh Fate
Federica Sallusto, Institute for Research in Biomedicine, University of Italian Switzerland, Switzerland
Plasticity of Human Pathogen Specific CD4 T Cell Responses
Hideki Ueno, Icahn School of Medicine at Mount Sinai, USA
Human Tfh Cell Subsets
Short Talk(s) Chosen from Abstracts

Lymphocyte Signaling and Diseases

David J. Rawlings, University of Washington, Seattle Children's Hospital Research Institute, USA
Signaling Defects Causing Immune Dysregulation
Gail A. Bishop, University of Iowa, USA
TRAF3 Inhibits B Cell Survival and Differentiation via Multiple Molecular Mechanisms

Robert C. Rickert, Sanford Burnham Prebys Medical Discovery Institute, USA
Signaling Pathways Regulating B Cell Differentiation and Lymphomagenesis
Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 26

Autoimmunity and Immunodeficiency - Mice and Man

Robert Brink, Garvan Institute of Medical Research, Australia
Selection and Counter-Selection in Germinal Centers
Qiang Pan-Hammarström, Karolinska Institutet, Sweden
B Cell Class Switch Defects in Primary Immunodeficiencies
Stuart G. Tangye, Garvan Institute of Medical Research, Australia
Defects in B Cell and Tfh Cells in Human Primary Immunodeficiencies
Mark J. Shlomchik, University of Pittsburgh School of Medicine, USA
B Cell Signaling in Germinal Centers
Short Talk(s) Chosen from Abstracts

GCs, Tfh Cells and Disease

Laura Pasqualucci, Columbia University, USA
Genetic Driven Epigenetic Dysregulation in B Cell Non-Hodgkin Lymphoma
Marcus R. Clark, University of Chicago, USA
Imaging Tfh Cells in Human Inflammatory Diseases
Karin Tarte, Université de Rennes 1 - U917 Inserm, France
GC Malignancies and the Tumor Microenvironment
Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, APRIL 27

B Cell Regulation: Intrinsic and Extrinsic Mechanisms

Arlene H. Sharpe, Harvard Medical School, USA
T Follicular Regulatory Cells
Ignacio Sanz, Emory University, School of Medicine, USA
Plasma Cells in Human SLE
Betty Diamond, Feinstein Institute for Medical Research, USA
B Cell-Mediated Autoimmunity and Therapeutics
Patrick C. Wilson, University of Chicago, USA
Immunoglobulin Repertoire and Selection during Vaccination and Infection
Short Talk(s) Chosen from Abstracts

Workshop 2: Molecular Regulation of the Germinal Center Response

Short Talks Chosen from Abstracts

Germinal Center Dynamics

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Tri Giang Phan, Garvan Institute of Medical Research, Australia

*Interactions between T and B Cells in Primary and Secondary
Antibody Responses*

Kim Good-Jacobson, Monash University, Australia

Transcriptional and Epigenetic Regulation of B-Cell Differentiation

Jason G. Cyster, HHMI/University of California, San Francisco, USA

Guidance Cues for T-Dependent B Cell Activation and Differentiation

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, APRIL 28

Departure